April, 2025

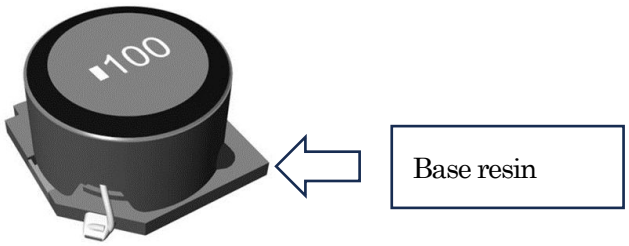
Subject: Change Notice on Base Resin for Wire-wound Ferrite Power Inductors

Dear TTI Asia,

The deliberations and evaluations on the regulations to PFASs have been mainly started and developed in the EU and the United States. PFASs are defined as fluorinated substances that contain at least one fully fluorinated methyl or methylene carbon atom.
The evaluation schedule of electronics and semiconductors sector, which belong to our products, is not decided yet. In contrast, we have started to receive the regulation requirement from some customers. To meet the trend of the legal regulations and customer's requirement, we decided to proceed PFAS-free in step-by-step basis for applicable products.
For a PFAS-containing material of our products, the change plan is shown as below.

* Applicable products
  Wire-wound Ferrite Power Inductors L□RN series

* Change point
  The base resin of the applicable products will be changed from PFAS-containing to PFAS-free.
* No change in environmental guarantee items other than the PFAS-free base resin.

Item	Existing	After change
Part No.	No change	
Change point	PFAS-containing base resin	PFAS-free base resin
Change position		

* Start of production
  From September 2025
  * The stocks will be replaced from the scheduled start of production.

* Quality and specification
  The quality level of the changed products is the same as that of the existing ones. No change is in specifications.

* Environmental materials
  Submission of environmental materials for PFAS-free products is available upon request.

* Reliability date

Refer to the attached “Wire-Wound Ferrite Power Inductor PFAS free”.

* Samples

Sample shipment will be available from May 2025. Please contact our sales person in charge as required..

* Approval request

We plan to complete this change with this letter. If you need others, such as the modification of the specification sheet, please ask us separately.

If you have no objection on this change, please fill in your signature to the blank box below and return this letter to us by the end of July 2025.

If you have any question, please contact our sales person in charge.

Approved by

Sincerely yours,

Motomitsu Hagiwara
Quality Assurance Department
Magnetic Product Division
TAIYO YUDEN CO., LTD.

No. LMR25040101C-E

April 1, 2025

To: TTI Asia

Motomitsu Hagiwara, Assistant General Manager
Magnetic Product Division
Taiyo Yuden Co., Ltd.

QA
'25.04.01
Hagiwara

Notice on component of PFAS free product

Dear Sirs:

We are glad to hear your prosperous business growth and we appreciate your continuous support to our product.

Regarding our product listed below, we are planning to take PFAS free action without changing product name. Accordingly, product component information will be changed between the products before and after PFAS free action. The nature of product whether it is before or after PFAS free action will be confirmed by lot No.

In response to the inquiry from customers regarding product component information, we are already providing latest information by document or through your Web site.
Since it is unable to register 2 different product component information in 1 product name in Web site, in advance to production start of PFAS free product on September 1, 2025, we will start to register PFAS free product component information to customer's Web site on and after May 1, 2025.
In such case, product component information for ordinary product before PFAS free action will not be registered to customer's Web site. Therefore, we would like to inform product component information before PFAS free action as listed in this document.

We would like to have your cooperation to check lot No. information of delivered product, and refer to following data to confirm information before and after PFAS free action.

Your understanding on this matter is much appreciated as this action is taken in order to reduce customers burden regarding PFAS free action and provide correct product component information.

In case you have any questions or inquiry, please contact our sales representative.

Note

Product name	**PFAS free action status**	**Lot No.** 8 digits in total (**YM******)** Y : Last 1 digit of year (2025 >> 5) M : Month (in alphabet order A-M >> 01-12, I is skipped.)	**Product component information**
Wound ferrite type power inductor L*R* series (Refer to Attachment-1 for details of objective part No.)	Ordinary product before PFAS free action (containing PFAS)	YM Up to 5H Ex.) 5HSDM001	As shown in product component table -1 (1) to (6)
	Modified product after PFAS free action (not containing PFAS)	YM From 5J 1st & 2nd number of lot No. 1st digit : 5 (2025) 2nd digit : From "5J" (Sept.-Dec.) Ex.) 5JSDM001	As shown in product component table -2 (1) to (6)

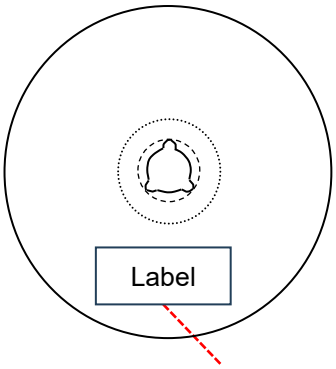
Thank you very much.

(Supplementary)

■ Lot No. marking location for delivered product (label)

[Label sample]

Lot No.



Affixed to reel

■ Lot No. identification method

Lot No.configuration)

①	②	③	④	⑤	⑥	⑦	⑧
Y	M						

Digit	Description	Supplement
①	Last 1 digit of production year Y	2025 → 5
		2026 → 6
②	Production month in 1 digit M (In alphabetic order A : Jan. B : Feb. ～ M : Dec.) ＊ I(ai) shall be skipped.	Jan. → A
		Feb. → B
		～
		Aug. → H
		Sept. → J
		～
		Dec. → M
③④⑤	Alphabetic character	(Internal control symbol)
⑥⑦⑧	Numeric character	(Internal control number)

(Legend)

Ordinary product before PFAS free action ↓ Production lot up to August 2025 (①② : Up to 5H)	**4M**SDM001
	5ASDM001
	5BSDM001
	・・・
	5GSDM001
	5HSDM001
Modified product after PFAS free action ↓ Production lot on and after September 2025 (①② : From 5J)	**5J**SDM001
	5KSDM001
	5LSDM001
	5MSDM001
	6ASDM001
	・・・

(Product component table-1)　Ordinary product before PFAS free action　(up to August 2025/Lot No.5H)

(1)

Part	Type name	Compound		Substance	CAS No.	Compound			Purposes of use
		Mass(mg)	Ratio(%)			Mass(mg)	Comp.(%)	Ratio(%)	
Ferrite	LMR-C001	522.4	38.778	Nickel-monoxide	1313-99-1	57.464	11	4.266	Principle component
				Copper(II)oxide	1317-38-0	20.896	4	1.551	Principle component
				Diiron-trioxide	1309-37-1	339.56	65	25.206	Principle component
				Zinc Oxide	1314-13-2	104.48	20	7.756	Principle component
Ferrite1	LMR-C002	324	24.051	Nickel-monoxide	1313-99-1	21.06	6.5	1.563	Principle component
				Copper(II)oxide	1317-38-0	14.58	4.5	1.082	Principle component
				Magnesium-oxide	1309-48-4	9.72	3	0.722	Principle component
				Diiron-trioxide	1309-37-1	217.08	67	16.114	Principle component
				Cobalt (II) oxide	1307-96-6	3.24	1	0.241	Principle component
				Zinc Oxide	1314-13-2	58.32	18	4.329	Principle component
Solder	LMR-S002	11.2	0.831	Copper	7440-50-8	0.0784	0.7	0.006	Principle component
				Tin	7440-31-5	11.1216	99.3	0.826	Principle component
Winding Wire	LMR-W003	271.39	20.145	Copper	7440-50-8	271.39	100	20.145	Principle component
Insulation Coating	LMR-W004	11.31	0.84	1,3-Butanediol, polymer with alpha-butyl-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and 1,3-diisocyanatomethylbenzene	68400-67-9	11.31	100	0.84	Principle component
Lead frame	LMR-BF003	60.09	4.46	Copper	7440-50-8	60.09	100	4.46	Principle component
Lead frame under plating	LMR-BF003A	1.7	0.126	Nickel	7440-02-0	1.7	100	0.126	Principle component
Lead frame finish plating	LMR-BF003B	6.11	0.454	Tin	7440-31-5	6.11	100	0.454	Principle component
Base	LMR-B001	120.8	8.967	Polytetrafloroethylene	9002-84-0	0.7248	0.6	0.054	Other
				Carbon Black	1333-86-4	1.208	1	0.09	Pigment/ Coloring Agent
				Man-made Fibre: Glass Fibre		28.992	24	2.152	Principle component
				1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, (1,1`-biphenyl)-4,4`-diol and 4-hydroxybenzoic acid	60088-52-0	89.8752	74.4	6.671	Principle component
Adhesive	LMR-A001	5.4	0.401	Bisphenol A, epichlorohydrin polymer	25068-38-6	2.97	55	0.22	Principle component
				Titanium-dioxide	13463-67-7	0.432	8	0.032	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	1.89	35	0.14	Principle component
				Silica	7631-86-9	0.108	2	0.008	Principle component
Adhesive1	LMR-A001	12.2	0.906	Bisphenol A, epichlorohydrin polymer	25068-38-6	6.71	55	0.498	Principle component
				Titanium-dioxide	13463-67-7	0.976	8	0.072	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	4.27	35	0.317	Principle component
				Silica	7631-86-9	0.244	2	0.018	Principle component
Adhesive2	LMR-U001	0.56	0.042	Silica	7631-86-9	0.0168	3	0.001	Ensuring of performance
				Polyethylene	9002-88-4	0.1512	27	0.011	Ensuring of performance
				Acrylate Urethane Oligomer	138636-06-3	0.364	65	0.027	Principle component
				Miscellaneous		0.028	5	0.002	Ensuring of performance
Total　(Design value)		1347.16	100			1347.16		100	

(2)

Part	Type name	Compound		Substance	CAS No.	Compound			Purposes of use
		Mass(mg)	Ratio(%)			Mass(mg)	Comp.(%)	Ratio(%)	
Ferrite	LMR-C001	580	36.832	Nickel-monoxide	1313-99-1	63.8	11	4.052	Principle component
				Copper(II)oxide	1317-38-0	23.2	4	1.473	Principle component
				Diiron-trioxide	1309-37-1	377	65	23.941	Principle component
				Zinc Oxide	1314-13-2	116	20	7.366	Principle component
Ferrite1	LMR-C001	435	27.624	Nickel-monoxide	1313-99-1	47.85	11	3.039	Principle component
				Copper(II)oxide	1317-38-0	17.4	4	1.105	Principle component
				Diiron-trioxide	1309-37-1	282.75	65	17.956	Principle component
				Zinc Oxide	1314-13-2	87	20	5.525	Principle component
Solder	LMR-S002	10	0.635	Copper	7440-50-8	0.07	0.7	0.004	Principle component
				Tin	7440-31-5	9.93	99.3	0.631	Principle component
Winding Wire	LMR-W003	337.92	21.459	Copper	7440-50-8	337.92	100	21.459	Principle component
Insulation Coating	LMR-W004	14.08	0.894	1,3-Butanediol, polymer with alpha-butyl-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and 1,3-diisocyanatomethylbenzene	68400-67-9	14.08	100	0.894	Principle component
Lead frame	LMR-BF003	59.826	3.799	Copper	7440-50-8	59.826	100	3.799	Principle component
Lead frame under plating	LMR-BF003A	1.69	0.107	Nickel	7440-02-0	1.69	100	0.107	Principle component
Lead frame finish plating	LMR-BF003B	6.084	0.386	Tin	7440-31-5	6.084	100	0.386	Principle component
Base	LMR-B002	114.1	7.246	Polytetrafloroethylene	9002-84-0	0.6846	0.6	0.043	Other
				Carbon Black	1333-86-4	1.141	1	0.072	Principle component
				Man-made Fibre: Glass Fibre		38.794	34	2.464	Principle component
				1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, (1,1`-biphenyl)-4,4`-diol and 4-hydroxybenzoic acid	60088-52-0	73.4804	64.4	4.666	Principle component
Adhesive	LMR-A001	5.5	0.349	Bisphenol A, epichlorohydrin polymer	25068-38-6	3.025	55	0.192	Principle component
				Titanium-dioxide	13463-67-7	0.44	8	0.028	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	1.925	35	0.122	Principle component
				Silica	7631-86-9	0.11	2	0.007	Principle component
Adhesive1	LMR-A001	9.5	0.603	Bisphenol A, epichlorohydrin polymer	25068-38-6	5.225	55	0.332	Principle component
				Titanium-dioxide	13463-67-7	0.76	8	0.048	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	3.325	35	0.211	Principle component
				Silica	7631-86-9	0.19	2	0.012	Principle component
Adhesive2	LMR-U001	1	0.064	Silica	7631-86-9	0.03	3	0.002	Ensuring of performance
				Polyethylene	9002-88-4	0.27	27	0.017	Ensuring of performance
				Acrylate Urethane Oligomer	138636-06-3	0.65	65	0.041	Principle component
				Miscellaneous		0.05	5	0.003	Ensuring of performance
Total (Design value)		1574.7	100			1574.7		100	

(3)

Part	Type name	Compound		Substance	CAS No.	Compound			Purposes of use
		Mass(mg)	Ratio(%)			Mass(mg)	Comp.(%)	Ratio(%)	
Ferrite	LMR-C001	640.7	35.248	Nickel-monoxide	1313-99-1	70.477	11	3.877	Principle component
				Copper(II)oxide	1317-38-0	25.628	4	1.41	Principle component
				Diiron-trioxide	1309-37-1	416.455	65	22.911	Principle component
				Zinc Oxide	1314-13-2	128.14	20	7.05	Principle component
Ferrite1	LMR-C001	546.6	30.071	Nickel-monoxide	1313-99-1	60.126	11	3.308	Principle component
				Copper(II)oxide	1317-38-0	21.864	4	1.203	Principle component
				Diiron-trioxide	1309-37-1	355.29	65	19.546	Principle component
				Zinc Oxide	1314-13-2	109.32	20	6.014	Principle component
Solder	LMR-S002	10	0.55	Copper	7440-50-8	0.07	0.7	0.004	Principle component
				Tin	7440-31-5	9.93	99.3	0.546	Principle component
Winding Wire	LMR-W003	405.79	22.324	Copper	7440-50-8	405.79	100	22.324	Principle component
Insulation Coating	LMR-W004	16.91	0.93	1,3-Butanediol, polymer with alpha-butyl-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and 1,3-diisocyanatomethylbenzene	68400-67-9	16.91	100	0.93	Principle component
Lead frame	LMR-BF002	59.83	3.292	Copper	7440-50-8	59.83	100	3.292	Principle component
Lead frame under plating	LMR-BF002A	1.69	0.093	Nickel	7440-02-0	1.69	100	0.093	Principle component
Lead frame finish plating	LMR-BF002B	6.08	0.334	Tin	7440-31-5	6.08	100	0.334	Principle component
Base	LMR-B002	114.1	6.277	Polytetrafloroethylene	9002-84-0	0.6846	0.6	0.038	Other
				Carbon Black	1333-86-4	1.141	1	0.063	Principle component
				Man-made Fibre: Glass Fibre		38.794	34	2.134	Principle component
				1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, (1,1`-biphenyl)-4,4`-diol and 4-hydroxybenzoic acid	60088-52-0	73.4804	64.4	4.042	Principle component
Adhesive	LMR-A001	5.5	0.303	Bisphenol A, epichlorohydrin polymer	25068-38-6	3.025	55	0.166	Principle component
				Titanium-dioxide	13463-67-7	0.44	8	0.024	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	1.925	35	0.106	Principle component
				Silica	7631-86-9	0.11	2	0.006	Principle component
Adhesive1	LMR-A001	9.5	0.523	Bisphenol A, epichlorohydrin polymer	25068-38-6	5.225	55	0.287	Principle component
				Titanium-dioxide	13463-67-7	0.76	8	0.042	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	3.325	35	0.183	Principle component
				Silica	7631-86-9	0.19	2	0.01	Principle component
Adhesive2	LMR-U001	1	0.055	Silica	7631-86-9	0.03	3	0.002	Ensuring of performance
				Polyethylene	9002-88-4	0.27	27	0.015	Ensuring of performance
				Acrylate Urethane Oligomer	138636-06-3	0.65	65	0.036	Principle component
				Miscellaneous		0.05	5	0.003	Ensuring of performance
Total (Design value)		1817.7	100			1817.7		100	

(4)

Part	Type name	Compound		Substance	CAS No.	Compound			Purposes of use
		Mass(mg)	Ratio(%)			Mass(mg)	Comp.(%)	Ratio(%)	
Ferrite	LMR-C001	1030	40.553	Nickel-monoxide	1313-99-1	113.3	11	4.461	Principle component
				Copper(II)oxide	1317-38-0	41.2	4	1.622	Principle component
				Diiron-trioxide	1309-37-1	669.5	65	26.359	Principle component
				Zinc Oxide	1314-13-2	206	20	8.111	Principle component
Ferrite1	LMR-C002	725	28.544	Nickel-monoxide	1313-99-1	47.125	6.5	1.855	Principle component
				Copper(II)oxide	1317-38-0	32.625	4.5	1.284	Principle component
				Magnesium-oxide	1309-48-4	21.75	3	0.856	Principle component
				Diiron-trioxide	1309-37-1	485.75	67	19.125	Principle component
				Cobalt (II) oxide	1307-96-6	7.25	1	0.285	Principle component
				Zinc Oxide	1314-13-2	130.5	18	5.138	Principle component
Solder	LMR-S002	31	1.221	Copper	7440-50-8	0.217	0.7	0.009	Principle component
				Tin	7440-31-5	30.783	99.3	1.212	Principle component
Winding Wire	LMR-W003	408	16.064	Copper	7440-50-8	408	100	16.064	Principle component
Insulation Coating	LMR-W004	17	0.669	1,3-Butanediol, polymer with alpha-butyl-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and 1,3-diisocyanatomethylbenzene	68400-67-9	17	100	0.669	Principle component
Lead frame	LMR-BF002	45.135	1.777	Copper	7440-50-8	45.135	100	1.777	Principle component
Lead frame under plating	LMR-BF002A	1.275	0.05	Nickel	7440-02-0	1.275	100	0.05	Principle component
Lead frame finish plating	LMR-BF002B	4.59	0.181	Tin	7440-31-5	4.59	100	0.181	Principle component
Base	LMR-B002	251	9.882	Polytetrafloroethylene	9002-84-0	1.506	0.6	0.059	Other
				Carbon Black	1333-86-4	2.51	1	0.099	Principle component
				Man-made Fibre: Glass Fibre		85.34	34	3.36	Principle component
				1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, (1,1`-biphenyl)-4,4`-diol and 4-hydroxybenzoic acid	60088-52-0	161.644	64.4	6.364	Principle component
Adhesive	LMR-A001	4.9	0.193	Bisphenol A, epichlorohydrin polymer	25068-38-6	2.695	55	0.106	Principle component
				Titanium-dioxide	13463-67-7	0.392	8	0.015	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	1.715	35	0.068	Principle component
				Silica	7631-86-9	0.098	2	0.004	Principle component
Adhesive1	LMR-A002	21	0.827	Bisphenol A, epichlorohydrin polymer	25068-38-6	0.525	2.5	0.021	Principle component
				Carbon Black	1333-86-4	0.168	0.8	0.007	Pigment/ Coloring Agent
				Silica	7631-86-9	9.996	47.6	0.394	Principle component
				Dicyandiamide	461-58-5	1.071	5.1	0.042	Ensuring of performance
				Phenol, formaldehyde, (chloromethyl)oxirane polymer	9003-36-5	9.24	44	0.364	Principle component
Adhesive2	LMR-U001	1	0.039	Silica	7631-86-9	0.03	3	0.001	Ensuring of performance
				Polyethylene	9002-88-4	0.27	27	0.011	Ensuring of performance
				Acrylate Urethane Oligomer	138636-06-3	0.65	65	0.026	Principle component
				Miscellaneous		0.05	5	0.002	Ensuring of performance
Total (Design value)		2539.9	100			2539.9		100	

(5)

Part	Type name	Compound		Substance	CAS No.	Compound			Purposes of use
		Mass(mg)	Ratio(%)			Mass(mg)	Comp.(%)	Ratio(%)	
Ferrite	LMR-C001	992	40.574	Nickel-monoxide	1313-99-1	109.12	11	4.463	Principle component
				Copper(II)oxide	1317-38-0	39.68	4	1.623	Principle component
				Diiron-trioxide	1309-37-1	644.8	65	26.373	Principle component
				Zinc Oxide	1314-13-2	198.4	20	8.115	Principle component
Ferrite1	LMR-C002	697	28.508	Nickel-monoxide	1313-99-1	45.305	6.5	1.853	Principle component
				Copper(II)oxide	1317-38-0	31.365	4.5	1.283	Principle component
				Magnesium-oxide	1309-48-4	20.91	3	0.855	Principle component
				Diiron-trioxide	1309-37-1	466.99	67	19.101	Principle component
				Cobalt (II) oxide	1307-96-6	6.97	1	0.285	Principle component
				Zinc Oxide	1314-13-2	125.46	18	5.131	Principle component
Solder	LMR-S002	30	1.227	Copper	7440-50-8	0.21	0.7	0.009	Principle component
				Tin	7440-31-5	29.79	99.3	1.218	Principle component
Winding Wire	LMR-W003	393.6	16.099	Copper	7440-50-8	393.6	100	16.099	Principle component
Insulation Coating	LMR-W004	16.4	0.671	1,3-Butanediol, polymer with alpha-butyl-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and 1,3-diisocyanatomethylbenzene	68400-67-9	16.4	100	0.671	Principle component
Lead frame	LMR-BF002	43.188	1.766	Copper	7440-50-8	43.188	100	1.766	Principle component
Lead frame under plating	LMR-BF002A	1.22	0.05	Nickel	7440-02-0	1.22	100	0.05	Principle component
Lead frame finish plating	LMR-BF002B	4.392	0.18	Tin	7440-31-5	4.392	100	0.18	Principle component
Base	LMR-B002	241.5	9.878	Polytetrafloroethylene	9002-84-0	1.449	0.6	0.059	Other
				Carbon Black	1333-86-4	2.415	1	0.099	Principle component
				Man-made Fibre: Glass Fibre		82.11	34	3.358	Principle component
				1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, (1,1`-biphenyl)-4,4`-diol and 4-hydroxybenzoic acid	60088-52-0	155.526	64.4	6.361	Principle component
Adhesive	LMR-A001	4.6	0.188	Bisphenol A, epichlorohydrin polymer	25068-38-6	2.53	55	0.103	Principle component
				Titanium-dioxide	13463-67-7	0.368	8	0.015	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	1.61	35	0.066	Principle component
				Silica	7631-86-9	0.092	2	0.004	Principle component
Adhesive1	LMR-A002	20	0.818	Bisphenol A, epichlorohydrin polymer	25068-38-6	0.5	2.5	0.02	Principle component
				Carbon Black	1333-86-4	0.16	0.8	0.007	Pigment/ Coloring Agent
				Silica	7631-86-9	9.52	47.6	0.389	Principle component
				Dicyandiamide	461-58-5	1.02	5.1	0.042	Ensuring of performance
				Phenol, formaldehyde, (chloromethyl)oxirane polymer	9003-36-5	8.8	44	0.36	Principle component
Adhesive2	LMR-U001	1	0.041	Silica	7631-86-9	0.03	3	0.001	Ensuring of performance
				Polyethylene	9002-88-4	0.27	27	0.011	Ensuring of performance
				Acrylate Urethane Oligomer	138636-06-3	0.65	65	0.027	Principle component
				Miscellaneous		0.05	5	0.002	Ensuring of performance
Total (Design value)		2444.9	100			2444.9		100	

(6)

Part	Type name	Compound		Substance	CAS No.	Compound			Purposes of use
		Mass(mg)	Ratio(%)			Mass(mg)	Comp.(%)	Ratio(%)	
Ferrite	LMR-C001	1403	40.621	Nickel-monoxide	1313-99-1	154.33	11	4.468	Principle component
				Copper(II)oxide	1317-38-0	56.12	4	1.625	Principle component
				Diiron-trioxide	1309-37-1	911.95	65	26.403	Principle component
				Zinc Oxide	1314-13-2	280.6	20	8.124	Principle component
Ferrite1	LMR-C002	986	28.547	Nickel-monoxide	1313-99-1	64.09	6.5	1.856	Principle component
				Copper(II)oxide	1317-38-0	44.37	4.5	1.285	Principle component
				Magnesium-oxide	1309-48-4	29.58	3	0.856	Principle component
				Diiron-trioxide	1309-37-1	660.62	67	19.127	Principle component
				Cobalt (II) oxide	1307-96-6	9.86	1	0.285	Principle component
				Zinc Oxide	1314-13-2	177.48	18	5.139	Principle component
Solder	LMR-S002	42	1.216	Copper	7440-50-8	0.294	0.7	0.009	Principle component
				Tin	7440-31-5	41.706	99.3	1.208	Principle component
Winding Wire	LMR-W003	552	15.982	Copper	7440-50-8	552	100	15.982	Principle component
Insulation Coating	LMR-W004	23	0.666	1,3-Butanediol, polymer with alpha-butyl-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and 1,3-diisocyanatomethylbenzene	68400-67-9	23	100	0.666	Principle component
Lead frame	LMR-BF002	61.95	1.794	Copper	7440-50-8	61.95	100	1.794	Principle component
Lead frame under plating	LMR-BF002A	1.75	0.051	Nickel	7440-02-0	1.75	100	0.051	Principle component
Lead frame finish plating	LMR-BF002B	6.3	0.182	Tin	7440-31-5	6.3	100	0.182	Principle component
Base	LMR-B002	342	9.902	Polytetrafloroethylene	9002-84-0	2.052	0.6	0.059	Other
				Carbon Black	1333-86-4	3.42	1	0.099	Principle component
				Man-made Fibre: Glass Fibre		116.28	34	3.367	Principle component
				1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, (1,1`-biphenyl)-4,4`-diol and 4-hydroxybenzoic acid	60088-52-0	220.248	64.4	6.377	Principle component
Adhesive	LMR-A001	6.9	0.2	Bisphenol A, epichlorohydrin polymer	25068-38-6	3.795	55	0.11	Principle component
				Titanium-dioxide	13463-67-7	0.552	8	0.016	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	2.415	35	0.07	Principle component
				Silica	7631-86-9	0.138	2	0.004	Principle component
Adhesive1	LMR-A002	28	0.811	Bisphenol A, epichlorohydrin polymer	25068-38-6	0.7	2.5	0.02	Principle component
				Carbon Black	1333-86-4	0.224	0.8	0.006	Pigment/ Coloring Agent
				Silica	7631-86-9	13.328	47.6	0.386	Principle component
				Dicyandiamide	461-58-5	1.428	5.1	0.041	Ensuring of performance
				Phenol, formaldehyde, (chloromethyl)oxirane polymer	9003-36-5	12.32	44	0.357	Principle component
Adhesive2	LMR-U001	1	0.029	Silica	7631-86-9	0.03	3	0.0009	Ensuring of performance
				Polyethylene	9002-88-4	0.27	27	0.008	Ensuring of performance
				Acrylate Urethane Oligomer	138636-06-3	0.65	65	0.019	Principle component
				Miscellaneous		0.05	5	0.001	Ensuring of performance
Total (Design value)		3453.9	100			3453.9		100	

(Product component table-2) Modified product after PFAS free action (from September 2025/Lot No.5J)

(1)

Part	Type name	Compound		Substance	CAS No.	Compound			Purposes of use
		Mass(mg)	Ratio(%)			Mass(mg)	Comp.(%)	Ratio(%)	
Ferrite	LMR-C001	522.4	38.778	Nickel-monoxide	1313-99-1	57.464	11	4.266	Principle component
				Copper(II)oxide	1317-38-0	20.896	4	1.551	Principle component
				Diiron-trioxide	1309-37-1	339.56	65	25.206	Principle component
				Zinc Oxide	1314-13-2	104.48	20	7.756	Principle component
Ferrite1	LMR-C002	324	24.051	Nickel-monoxide	1313-99-1	21.06	6.5	1.563	Principle component
				Copper(II)oxide	1317-38-0	14.58	4.5	1.082	Principle component
				Magnesium-oxide	1309-48-4	9.72	3	0.722	Principle component
				Diiron-trioxide	1309-37-1	217.08	67	16.114	Principle component
				Cobalt (II) oxide	1307-96-6	3.24	1	0.241	Principle component
				Zinc Oxide	1314-13-2	58.32	18	4.329	Principle component
Solder	LMR-S002	11.2	0.831	Copper	7440-50-8	0.0784	0.7	0.006	Principle component
				Tin	7440-31-5	11.1216	99.3	0.826	Principle component
Winding Wire	LMR-W003	271.39	20.145	Copper	7440-50-8	271.39	100	20.145	Principle component
Insulation Coating	LMR-W004	11.31	0.84	1,3-Butanediol, polymer with alpha-butyl-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and 1,3-diisocyanatomethylbenzene	68400-67-9	11.31	100	0.84	Principle component
Lead frame	LMR-BF003	60.09	4.46	Copper	7440-50-8	60.09	100	4.46	Principle component
Lead frame under plating	LMR-BF003A	1.7	0.126	Nickel	7440-02-0	1.7	100	0.126	Principle component
Lead frame finish plating	LMR-BF003B	6.11	0.454	Tin	7440-31-5	6.11	100	0.454	Principle component
Base	LMR-B002A	120.8	8.967	Carbon Black	1333-86-4	1.208	1	0.09	Principle component
				Man-made Fibre: Glass Fibre		36.24	30	2.69	Principle component
				1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, (1,1`-biphenyl)-4,4`-diol and 4-hydroxybenzoic acid	60088-52-0	83.352	69	6.187	Principle component
Adhesive	LMR-A001	5.4	0.401	Bisphenol A, epichlorohydrin polymer	25068-38-6	2.97	55	0.22	Principle component
				Titanium-dioxide	13463-67-7	0.432	8	0.032	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	1.89	35	0.14	Principle component
				Silica	7631-86-9	0.108	2	0.008	Principle component
Adhesive1	LMR-A001	12.2	0.906	Bisphenol A, epichlorohydrin polymer	25068-38-6	6.71	55	0.498	Principle component
				Titanium-dioxide	13463-67-7	0.976	8	0.072	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	4.27	35	0.317	Principle component
				Silica	7631-86-9	0.244	2	0.018	Principle component
Adhesive2	LMR-U001	0.56	0.042	Silica	7631-86-9	0.0168	3	0.001	Ensuring of performance
				Polyethylene	9002-88-4	0.1512	27	0.011	Ensuring of performance
				Acrylate Urethane Oligomer	138636-06-3	0.364	65	0.027	Principle component
				Miscellaneous		0.028	5	0.002	Ensuring of performance
Total (Design value)		1347.16	100			1347.16		100	

(2)

Part	Type name	Compound		Substance	CAS No.	Compound			Purposes of use
		Mass(mg)	Ratio(%)			Mass(mg)	Comp.(%)	Ratio(%)	
Ferrite	LMR-C001	580	36.832	Nickel-monoxide	1313-99-1	63.8	11	4.052	Principle component
				Copper(II)oxide	1317-38-0	23.2	4	1.473	Principle component
				Diiron-trioxide	1309-37-1	377	65	23.941	Principle component
				Zinc Oxide	1314-13-2	116	20	7.366	Principle component
Ferrite1	LMR-C001	435	27.624	Nickel-monoxide	1313-99-1	47.85	11	3.039	Principle component
				Copper(II)oxide	1317-38-0	17.4	4	1.105	Principle component
				Diiron-trioxide	1309-37-1	282.75	65	17.956	Principle component
				Zinc Oxide	1314-13-2	87	20	5.525	Principle component
Solder	LMR-S002	10	0.635	Copper	7440-50-8	0.07	0.7	0.004	Principle component
				Tin	7440-31-5	9.93	99.3	0.631	Principle component
Winding Wire	LMR-W003	337.92	21.459	Copper	7440-50-8	337.92	100	21.459	Principle component
Insulation Coating	LMR-W004	14.08	0.894	1,3-Butanediol, polymer with alpha-butyl-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and 1,3-diisocyanatomethylbenzene	68400-67-9	14.08	100	0.894	Principle component
Lead frame	LMR-BF003	59.826	3.799	Copper	7440-50-8	59.826	100	3.799	Principle component
Lead frame under plating	LMR-BF003A	1.69	0.107	Nickel	7440-02-0	1.69	100	0.107	Principle component
Lead frame finish plating	LMR-BF003B	6.084	0.386	Tin	7440-31-5	6.084	100	0.386	Principle component
Base	LMR-B002A	114.1	7.246	Carbon Black	1333-86-4	1.141	1	0.072	Principle component
				Man-made Fibre: Glass Fibre		34.23	30	2.174	Principle component
				1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, (1,1`-biphenyl)-4,4`-diol and 4-hydroxybenzoic acid	60088-52-0	78.729	69	5	Principle component
Adhesive	LMR-A001	5.5	0.349	Bisphenol A, epichlorohydrin polymer	25068-38-6	3.025	55	0.192	Principle component
				Titanium-dioxide	13463-67-7	0.44	8	0.028	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	1.925	35	0.122	Principle component
				Silica	7631-86-9	0.11	2	0.007	Principle component
Adhesive1	LMR-A001	9.5	0.603	Bisphenol A, epichlorohydrin polymer	25068-38-6	5.225	55	0.332	Principle component
				Titanium-dioxide	13463-67-7	0.76	8	0.048	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	3.325	35	0.211	Principle component
				Silica	7631-86-9	0.19	2	0.012	Principle component
Adhesive2	LMR-U001	1	0.064	Silica	7631-86-9	0.03	3	0.002	Ensuring of performance
				Polyethylene	9002-88-4	0.27	27	0.017	Ensuring of performance
				Acrylate Urethane Oligomer	138636-06-3	0.65	65	0.041	Principle component
				Miscellaneous		0.05	5	0.003	Ensuring of performance
Total （Design value）		1574.7	100			1574.7		100	

(3)

Part	Type name	Compound		Substance	CAS No.	Compound			Purposes of use
		Mass(mg)	Ratio(%)			Mass(mg)	Comp.(%)	Ratio(%)	
Ferrite	LMR-C001	640.7	35.248	Nickel-monoxide	1313-99-1	70.477	11	3.877	Principle component
				Copper(II)oxide	1317-38-0	25.628	4	1.41	Principle component
				Diiron-trioxide	1309-37-1	416.455	65	22.911	Principle component
				Zinc Oxide	1314-13-2	128.14	20	7.05	Principle component
Ferrite1	LMR-C001	546.6	30.071	Nickel-monoxide	1313-99-1	60.126	11	3.308	Principle component
				Copper(II)oxide	1317-38-0	21.864	4	1.203	Principle component
				Diiron-trioxide	1309-37-1	355.29	65	19.546	Principle component
				Zinc Oxide	1314-13-2	109.32	20	6.014	Principle component
Solder	LMR-S002	10	0.55	Copper	7440-50-8	0.07	0.7	0.004	Principle component
				Tin	7440-31-5	9.93	99.3	0.546	Principle component
Winding Wire	LMR-W003	405.79	22.324	Copper	7440-50-8	405.79	100	22.324	Principle component
Insulation Coating	LMR-W004	16.91	0.93	1,3-Butanediol, polymer with alpha-butyl-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and 1,3-diisocyanatomethylbenzene	68400-67-9	16.91	100	0.93	Principle component
Lead frame	LMR-BF002	59.83	3.292	Copper	7440-50-8	59.83	100	3.292	Principle component
Lead frame under plating	LMR-BF002A	1.69	0.093	Nickel	7440-02-0	1.69	100	0.093	Principle component
Lead frame finish plating	LMR-BF002B	6.08	0.334	Tin	7440-31-5	6.08	100	0.334	Principle component
Base	LMR-B002A	114.1	6.277	Carbon Black	1333-86-4	1.141	1	0.063	Principle component
				Man-made Fibre: Glass Fibre		34.23	30	1.883	Principle component
				1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, (1,1`-biphenyl)-4,4`-diol and 4-hydroxybenzoic acid	60088-52-0	78.729	69	4.331	Principle component
Adhesive	LMR-A001	5.5	0.303	Bisphenol A, epichlorohydrin polymer	25068-38-6	3.025	55	0.166	Principle component
				Titanium-dioxide	13463-67-7	0.44	8	0.024	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	1.925	35	0.106	Principle component
				Silica	7631-86-9	0.11	2	0.006	Principle component
Adhesive1	LMR-A001	9.5	0.523	Bisphenol A, epichlorohydrin polymer	25068-38-6	5.225	55	0.287	Principle component
				Titanium-dioxide	13463-67-7	0.76	8	0.042	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	3.325	35	0.183	Principle component
				Silica	7631-86-9	0.19	2	0.01	Principle component
Adhesive2	LMR-U001	1	0.055	Silica	7631-86-9	0.03	3	0.002	Ensuring of performance
				Polyethylene	9002-88-4	0.27	27	0.015	Ensuring of performance
				Acrylate Urethane Oligomer	138636-06-3	0.65	65	0.036	Principle component
				Miscellaneous		0.05	5	0.003	Ensuring of performance
Total (Design value)		1817.7	100			1817.7		100	

(4)

Part	Type name	Compound		Substance	CAS No.	Compound			Purposes of use
		Mass(mg)	Ratio(%)			Mass(mg)	Comp.(%)	Ratio(%)	
Ferrite	LMR-C001	1030	40.553	Nickel-monoxide	1313-99-1	113.3	11	4.461	Principle component
				Copper(II)oxide	1317-38-0	41.2	4	1.622	Principle component
				Diiron-trioxide	1309-37-1	669.5	65	26.359	Principle component
				Zinc Oxide	1314-13-2	206	20	8.111	Principle component
Ferrite1	LMR-C002	725	28.544	Nickel-monoxide	1313-99-1	47.125	6.5	1.855	Principle component
				Copper(II)oxide	1317-38-0	32.625	4.5	1.284	Principle component
				Magnesium-oxide	1309-48-4	21.75	3	0.856	Principle component
				Diiron-trioxide	1309-37-1	485.75	67	19.125	Principle component
				Cobalt (II) oxide	1307-96-6	7.25	1	0.285	Principle component
				Zinc Oxide	1314-13-2	130.5	18	5.138	Principle component
Solder	LMR-S002	31	1.221	Copper	7440-50-8	0.217	0.7	0.009	Principle component
				Tin	7440-31-5	30.783	99.3	1.212	Principle component
Winding Wire	LMR-W003	408	16.064	Copper	7440-50-8	408	100	16.064	Principle component
Insulation Coating	LMR-W004	17	0.669	1,3-Butanediol, polymer with alpha-butyl-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and 1,3-diisocyanatomethylbenzene	68400-67-9	17	100	0.669	Principle component
Lead frame	LMR-BF002	45.135	1.777	Copper	7440-50-8	45.135	100	1.777	Principle component
Lead frame under plating	LMR-BF002A	1.275	0.05	Nickel	7440-02-0	1.275	100	0.05	Principle component
Lead frame finish plating	LMR-BF002B	4.59	0.181	Tin	7440-31-5	4.59	100	0.181	Principle component
Base	LMR-B002A	251	9.882	Carbon Black	1333-86-4	2.51	1	0.099	Principle component
				Man-made Fibre: Glass Fibre		75.3	30	2.965	Principle component
				1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, (1,1`-biphenyl)-4,4`-diol and 4-hydroxybenzoic acid	60088-52-0	173.19	69	6.819	Principle component
Adhesive	LMR-A001	4.9	0.193	Bisphenol A, epichlorohydrin polymer	25068-38-6	2.695	55	0.106	Principle component
				Titanium-dioxide	13463-67-7	0.392	8	0.015	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	1.715	35	0.068	Principle component
				Silica	7631-86-9	0.098	2	0.004	Principle component
Adhesive1	LMR-A002	21	0.827	Bisphenol A, epichlorohydrin polymer	25068-38-6	0.525	2.5	0.021	Principle component
				Carbon Black	1333-86-4	0.168	0.8	0.007	Pigment/ Coloring Agent
				Silica	7631-86-9	9.996	47.6	0.394	Principle component
				Dicyandiamide	461-58-5	1.071	5.1	0.042	Ensuring of performance
				Phenol, formaldehyde, (chloromethyl)oxirane polymer	9003-36-5	9.24	44	0.364	Principle component
Adhesive2	LMR-U001	1	0.039	Silica	7631-86-9	0.03	3	0.001	Ensuring of performance
				Polyethylene	9002-88-4	0.27	27	0.011	Ensuring of performance
				Acrylate Urethane Oligomer	138636-06-3	0.65	65	0.026	Principle component
				Miscellaneous		0.05	5	0.002	Ensuring of performance
Total （Design value）		2539.9	100			2539.9		100	

(5)

Part	Type name	Compound		Substance	CAS No.	Compound			Purposes of use
		Mass(mg)	Ratio(%)			Mass(mg)	Comp.(%)	Ratio(%)	
Ferrite	LMR-C001	992	40.574	Nickel-monoxide	1313-99-1	109.12	11	4.463	Principle component
				Copper(II)oxide	1317-38-0	39.68	4	1.623	Principle component
				Diiron-trioxide	1309-37-1	644.8	65	26.373	Principle component
				Zinc Oxide	1314-13-2	198.4	20	8.115	Principle component
Ferrite1	LMR-C002	697	28.508	Nickel-monoxide	1313-99-1	45.305	6.5	1.853	Principle component
				Copper(II)oxide	1317-38-0	31.365	4.5	1.283	Principle component
				Magnesium-oxide	1309-48-4	20.91	3	0.855	Principle component
				Diiron-trioxide	1309-37-1	466.99	67	19.101	Principle component
				Cobalt (II) oxide	1307-96-6	6.97	1	0.285	Principle component
				Zinc Oxide	1314-13-2	125.46	18	5.131	Principle component
Solder	LMR-S002	30	1.227	Copper	7440-50-8	0.21	0.7	0.009	Principle component
				Tin	7440-31-5	29.79	99.3	1.218	Principle component
Winding Wire	LMR-W003	393.6	16.099	Copper	7440-50-8	393.6	100	16.099	Principle component
Insulation Coating	LMR-W004	16.4	0.671	1,3-Butanediol, polymer with alpha-butyl-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and 1,3-diisocyanatomethylbenzene	68400-67-9	16.4	100	0.671	Principle component
Lead frame	LMR-BF002	43.188	1.766	Copper	7440-50-8	43.188	100	1.766	Principle component
Lead frame under plating	LMR-BF002A	1.22	0.05	Nickel	7440-02-0	1.22	100	0.05	Principle component
Lead frame finish plating	LMR-BF002B	4.392	0.18	Tin	7440-31-5	4.392	100	0.18	Principle component
Base	LMR-B002A	241.5	9.878	Carbon Black	1333-86-4	2.415	1	0.099	Principle component
				Man-made Fibre: Glass Fibre		72.45	30	2.963	Principle component
				1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, (1,1`-biphenyl)-4,4`-diol and 4-hydroxybenzoic acid	60088-52-0	166.635	69	6.816	Principle component
Adhesive	LMR-A001	4.6	0.188	Bisphenol A, epichlorohydrin polymer	25068-38-6	2.53	55	0.103	Principle component
				Titanium-dioxide	13463-67-7	0.368	8	0.015	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	1.61	35	0.066	Principle component
				Silica	7631-86-9	0.092	2	0.004	Principle component
Adhesive1	LMR-A002	20	0.818	Bisphenol A, epichlorohydrin polymer	25068-38-6	0.5	2.5	0.02	Principle component
				Carbon Black	1333-86-4	0.16	0.8	0.007	Pigment/ Coloring Agent
				Silica	7631-86-9	9.52	47.6	0.389	Principle component
				Dicyandiamide	461-58-5	1.02	5.1	0.042	Ensuring of performance
				Phenol, formaldehyde, (chloromethyl)oxirane polymer	9003-36-5	8.8	44	0.36	Principle component
Adhesive2	LMR-U001	1	0.041	Silica	7631-86-9	0.03	3	0.001	Ensuring of performance
				Polyethylene	9002-88-4	0.27	27	0.011	Ensuring of performance
				Acrylate Urethane Oligomer	138636-06-3	0.65	65	0.027	Principle component
				Miscellaneous		0.05	5	0.002	Ensuring of performance
Total (Design value)		2444.9	100			2444.9		100	

(6)

Part	Type name	Compound		Substance	CAS No.	Compound			Purposes of use
		Mass(mg)	Ratio(%)			Mass(mg)	Comp.(%)	Ratio(%)	
Ferrite	LMR-C001	1403	40.621	Nickel-monoxide	1313-99-1	154.33	11	4.468	Principle component
				Copper(II)oxide	1317-38-0	56.12	4	1.625	Principle component
				Diiron-trioxide	1309-37-1	911.95	65	26.403	Principle component
				Zinc Oxide	1314-13-2	280.6	20	8.124	Principle component
Ferrite1	LMR-C002	986	28.547	Nickel-monoxide	1313-99-1	64.09	6.5	1.856	Principle component
				Copper(II)oxide	1317-38-0	44.37	4.5	1.285	Principle component
				Magnesium-oxide	1309-48-4	29.58	3	0.856	Principle component
				Diiron-trioxide	1309-37-1	660.62	67	19.127	Principle component
				Cobalt (II) oxide	1307-96-6	9.86	1	0.285	Principle component
				Zinc Oxide	1314-13-2	177.48	18	5.139	Principle component
Solder	LMR-S002	42	1.216	Copper	7440-50-8	0.294	0.7	0.009	Principle component
				Tin	7440-31-5	41.706	99.3	1.208	Principle component
Winding Wire	LMR-W003	552	15.982	Copper	7440-50-8	552	100	15.982	Principle component
Insulation Coating	LMR-W004	23	0.666	1,3-Butanediol, polymer with alpha-butyl-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and 1,3-diisocyanatomethylbenzene	68400-67-9	23	100	0.666	Principle component
Lead frame	LMR-BF002	61.95	1.794	Copper	7440-50-8	61.95	100	1.794	Principle component
Lead frame under plating	LMR-BF002A	1.75	0.051	Nickel	7440-02-0	1.75	100	0.051	Principle component
Lead frame finish plating	LMR-BF002B	6.3	0.182	Tin	7440-31-5	6.3	100	0.182	Principle component
Base	LMR-R002A	342	9.902	Carbon Black	1333-86-4	3.42	1	0.099	Principle component
				Man-made Fibre: Glass Fibre		102.6	30	2.971	Principle component
				1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, (1,1`-biphenyl)-4,4`-diol and 4-hydroxybenzoic acid	60088-52-0	235.98	69	6.832	Principle component
Adhesive	LMR-A001	6.9	0.2	Bisphenol A, epichlorohydrin polymer	25068-38-6	3.795	55	0.11	Principle component
				Titanium-dioxide	13463-67-7	0.552	8	0.016	Pigment/ Coloring Agent
				Aluminium hydroxide	21645-51-2	2.415	35	0.07	Principle component
				Silica	7631-86-9	0.138	2	0.004	Principle component
Adhesive1	LMR-A002	28	0.811	Bisphenol A, epichlorohydrin polymer	25068-38-6	0.7	2.5	0.02	Principle component
				Carbon Black	1333-86-4	0.224	0.8	0.006	Pigment/ Coloring Agent
				Silica	7631-86-9	13.328	47.6	0.386	Principle component
				Dicyandiamide	461-58-5	1.428	5.1	0.041	Ensuring of performance
				Phenol, formaldehyde, (chloromethyl)oxirane polymer	9003-36-5	12.32	44	0.357	Principle component
Adhesive2	LMR-U001	1	0.029	Silica	7631-86-9	0.03	3	0.0009	Ensuring of performance
				Polyethylene	9002-88-4	0.27	27	0.008	Ensuring of performance
				Acrylate Urethane Oligomer	138636-06-3	0.65	65	0.019	Principle component
				Miscellaneous		0.05	5	0.001	Ensuring of performance
Total （Design value）		3453.9	100			3453.9		100	

(Attachment-1) Relavant Product Numbers

New Part Number	Old Part Number	Material	Product Component Information
LBRNJ10145GL100MN	NS 10145T 100MNV8	Regin Base	(1)
LMRNJ10145GL100MN	NS 10145T 100MNV8	Regin Base	(1)
LCRNJ10145GL100MN	NS 10145T 100MNVV	Regin Base	(1)
LCRNJ10145GL100MN00J	NS 10145T 100MNVV	Regin Base	(1)
LBRNJ10145GL101MN	NS 10145T 101MNV8	Regin Base	(1)
LMRNJ10145GL101MN	NS 10145T 101MNV8	Regin Base	(1)
LCRNJ10145GL101MN	NS 10145T 101MNVV	Regin Base	(1)
LCRNJ10145GL101MN00J	NS 10145T 101MNVV	Regin Base	(1)
LBRNJ10145GL102MN	NS 10145T 102MNV8	Regin Base	(1)
LMRNJ10145GL102MN	NS 10145T 102MNV8	Regin Base	(1)
LCRNJ10145GL102MN	NS 10145T 102MNVV	Regin Base	(1)
LCRNJ10145GL102MN00J	NS 10145T 102MNVV	Regin Base	(1)
LBRNJ10145GL150MN	NS 10145T 150MNV8	Regin Base	(1)
LMRNJ10145GL150MN	NS 10145T 150MNV8	Regin Base	(1)
LCRNJ10145GL150MN	NS 10145T 150MNVV	Regin Base	(1)
LCRNJ10145GL150MN00J	NS 10145T 150MNVV	Regin Base	(1)
LBRNJ10145GL151MN	NS 10145T 151MNV8	Regin Base	(1)
LMRNJ10145GL151MN	NS 10145T 151MNV8	Regin Base	(1)
LCRNJ10145GL151MN	NS 10145T 151MNVV	Regin Base	(1)
LCRNJ10145GL151MN00J	NS 10145T 151MNVV	Regin Base	(1)
LBRNJ10145GL152MN	NS 10145T 152MNV8	Regin Base	(1)
LMRNJ10145GL152MN	NS 10145T 152MNV8	Regin Base	(1)
LCRNJ10145GL152MN	NS 10145T 152MNVV	Regin Base	(1)
LCRNJ10145GL152MN00J	NS 10145T 152MNVV	Regin Base	(1)
LBRNJ10145GL1R0NN	NS 10145T 1R0NNV8	Regin Base	(1)
LMRNJ10145GL1R0NN	NS 10145T 1R0NNV8	Regin Base	(1)
LCRNJ10145GL1R0NN	NS 10145T 1R0NNVV	Regin Base	(1)
LCRNJ10145GL1R0NN00J	NS 10145T 1R0NNVV	Regin Base	(1)
LBRNJ10145GL1R5NN	NS 10145T 1R5NNV8	Regin Base	(1)
LMRNJ10145GL1R5NN	NS 10145T 1R5NNV8	Regin Base	(1)
LCRNJ10145GL1R5NN	NS 10145T 1R5NNVV	Regin Base	(1)
LCRNJ10145GL1R5NN00J	NS 10145T 1R5NNVV	Regin Base	(1)
LBRNJ10145GL220MN	NS 10145T 220MNV8	Regin Base	(1)
LMRNJ10145GL220MN	NS 10145T 220MNV8	Regin Base	(1)
LCRNJ10145GL220MN	NS 10145T 220MNVV	Regin Base	(1)
LCRNJ10145GL220MN00J	NS 10145T 220MNVV	Regin Base	(1)
LBRNJ10145GL221MN	NS 10145T 221MNV8	Regin Base	(1)
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LCRNJ10145GL221MN00J	NS 10145T 221MNVV	Regin Base	(1)
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LCRNJ10145GL2R2NN	NS 10145T 2R2NNVV	Regin Base	(1)
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LCRNJ10145GL3R3NN	NS 10145T 3R3NNVV	Regin Base	(1)
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LCRNJ10145GL5R6NN	NS 10145T 5R6NNVV	Regin Base	(1)
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LCRNJ10145GL680MN00J	NS 10145T 680MNVV	Regin Base	(1)
LBRNJ10145GL681MN	NS 10145T 681MNV8	Regin Base	(1)
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LCRNJ12555GL221MN00J	NS 12555T 221MN V	Regin Base	(4)
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LCRNJ12555GL331MN00J	NS 12555T 331MN V	Regin Base	(4)
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LCRNJ12555GL470MN	NS 12555T 470MN V	Regin Base	(4)
LCRNJ12555GL470MN00J	NS 12555T 470MN V	Regin Base	(4)
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LBRNJ12555GL681MN	NS 12555T 681MN 8	Regin Base	(4)
LMRNJ12555GL681MN	NS 12555T 681MN 8	Regin Base	(4)
LCRNJ12555GL681MN	NS 12555T 681MN V	Regin Base	(4)
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LCRNJ12555GL6R0NN	NS 12555T 6R0NN V	Regin Base	(4)
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LCRNJ12565GL100MN00J	NS 12565T 100MN V	Regin Base	(5)
LBRNJ12565GL101MN	NS 12565T 101MN 8	Regin Base	(5)
LMRNJ12565GL101MN	NS 12565T 101MN 8	Regin Base	(5)
LCRNJ12565GL101MN	NS 12565T 101MN V	Regin Base	(5)

LCRNJ12565GL101MN00J	NS 12565T 101MN V	Regin Base	(5)
LBRNJ12565GL150MN	NS 12565T 150MN 8	Regin Base	(5)
LMRNJ12565GL150MN	NS 12565T 150MN 8	Regin Base	(5)
LCRNJ12565GL150MN	NS 12565T 150MN V	Regin Base	(5)
LCRNJ12565GL150MN00J	NS 12565T 150MN V	Regin Base	(5)
LBRNJ12565GL151MN	NS 12565T 151MN 8	Regin Base	(5)
LMRNJ12565GL151MN	NS 12565T 151MN 8	Regin Base	(5)
LCRNJ12565GL151MN	NS 12565T 151MN V	Regin Base	(5)
LCRNJ12565GL151MN00J	NS 12565T 151MN V	Regin Base	(5)
LBRNJ12565GL220MN	NS 12565T 220MN 8	Regin Base	(5)
LMRNJ12565GL220MN	NS 12565T 220MN 8	Regin Base	(5)
LCRNJ12565GL220MN	NS 12565T 220MN V	Regin Base	(5)
LCRNJ12565GL220MN00J	NS 12565T 220MN V	Regin Base	(5)
LBRNJ12565GL221MN	NS 12565T 221MN 8	Regin Base	(5)
LMRNJ12565GL221MN	NS 12565T 221MN 8	Regin Base	(5)
LCRNJ12565GL221MN	NS 12565T 221MN V	Regin Base	(5)
LCRNJ12565GL221MN00J	NS 12565T 221MN V	Regin Base	(5)
LBRNJ12565GL2R0NN	NS 12565T 2R0NN 8	Regin Base	(5)
LMRNJ12565GL2R0NN	NS 12565T 2R0NN 8	Regin Base	(5)
LCRNJ12565GL2R0NN	NS 12565T 2R0NN V	Regin Base	(5)
LCRNJ12565GL2R0NN00J	NS 12565T 2R0NN V	Regin Base	(5)
LBRNJ12565GL330MN	NS 12565T 330MN 8	Regin Base	(5)
LMRNJ12565GL330MN	NS 12565T 330MN 8	Regin Base	(5)
LCRNJ12565GL330MN	NS 12565T 330MN V	Regin Base	(5)
LCRNJ12565GL330MN00J	NS 12565T 330MN V	Regin Base	(5)
LBRNJ12565GL470MN	NS 12565T 470MN 8	Regin Base	(5)
LMRNJ12565GL470MN	NS 12565T 470MN 8	Regin Base	(5)
LCRNJ12565GL470MN	NS 12565T 470MN V	Regin Base	(5)
LCRNJ12565GL470MN00J	NS 12565T 470MN V	Regin Base	(5)
LBRNJ12565GL4R2NN	NS 12565T 4R2NN 8	Regin Base	(5)
LMRNJ12565GL4R2NN	NS 12565T 4R2NN 8	Regin Base	(5)
LCRNJ12565GL4R2NN	NS 12565T 4R2NN V	Regin Base	(5)
LCRNJ12565GL4R2NN00J	NS 12565T 4R2NN V	Regin Base	(5)
LBRNJ12565GL680MN	NS 12565T 680MN 8	Regin Base	(5)
LMRNJ12565GL680MN	NS 12565T 680MN 8	Regin Base	(5)
LCRNJ12565GL680MN	NS 12565T 680MN V	Regin Base	(5)
LCRNJ12565GL680MN00J	NS 12565T 680MN V	Regin Base	(5)
LBRNJ12565GL7R0NN	NS 12565T 7R0NN 8	Regin Base	(5)
LMRNJ12565GL7R0NN	NS 12565T 7R0NN 8	Regin Base	(5)
LCRNJ12565GL7R0NN	NS 12565T 7R0NN V	Regin Base	(5)
LCRNJ12565GL7R0NN00J	NS 12565T 7R0NN V	Regin Base	(5)
LBRNJ12575GL100MN	NS 12575T 100MN 8	Regin Base	(6)
LMRNJ12575GL100MN	NS 12575T 100MN 8	Regin Base	(6)
LCRNJ12575GL100MN	NS 12575T 100MN V	Regin Base	(6)
LCRNJ12575GL100MN00J	NS 12575T 100MN V	Regin Base	(6)
LBRNJ12575GL101MN	NS 12575T 101MN 8	Regin Base	(6)
LMRNJ12575GL101MN	NS 12575T 101MN 8	Regin Base	(6)
LCRNJ12575GL101MN	NS 12575T 101MN V	Regin Base	(6)
LCRNJ12575GL101MN00J	NS 12575T 101MN V	Regin Base	(6)
LBRNJ12575GL102MN	NS 12575T 102MN 8	Regin Base	(6)
LMRNJ12575GL102MN	NS 12575T 102MN 8	Regin Base	(6)
LCRNJ12575GL102MN	NS 12575T 102MN V	Regin Base	(6)
LCRNJ12575GL102MN00J	NS 12575T 102MN V	Regin Base	(6)
LBRNJ12575GL150MN	NS 12575T 150MN 8	Regin Base	(6)
LMRNJ12575GL150MN	NS 12575T 150MN 8	Regin Base	(6)

LCRNJ12575GL150MN	NS 12575T 150MN V	Regin Base	(6)
LCRNJ12575GL150MN00J	NS 12575T 150MN V	Regin Base	(6)
LBRNJ12575GL151MN	NS 12575T 151MN 8	Regin Base	(6)
LMRNJ12575GL151MN	NS 12575T 151MN 8	Regin Base	(6)
LCRNJ12575GL151MN	NS 12575T 151MN V	Regin Base	(6)
LCRNJ12575GL151MN00J	NS 12575T 151MN V	Regin Base	(6)
LBRNJ12575GL1R2NN	NS 12575T 1R2NN 8	Regin Base	(6)
LMRNJ12575GL1R2NN	NS 12575T 1R2NN 8	Regin Base	(6)
LCRNJ12575GL1R2NN	NS 12575T 1R2NN V	Regin Base	(6)
LCRNJ12575GL1R2NN00J	NS 12575T 1R2NN V	Regin Base	(6)
LBRNJ12575GL220MN	NS 12575T 220MN 8	Regin Base	(6)
LMRNJ12575GL220MN	NS 12575T 220MN 8	Regin Base	(6)
LCRNJ12575GL220MN	NS 12575T 220MN V	Regin Base	(6)
LCRNJ12575GL220MN00J	NS 12575T 220MN V	Regin Base	(6)
LBRNJ12575GL221MN	NS 12575T 221MN 8	Regin Base	(6)
LMRNJ12575GL221MN	NS 12575T 221MN 8	Regin Base	(6)
LCRNJ12575GL221MN	NS 12575T 221MN V	Regin Base	(6)
LCRNJ12575GL221MN00J	NS 12575T 221MN V	Regin Base	(6)
LBRNJ12575GL2R7NN	NS 12575T 2R7NN 8	Regin Base	(6)
LMRNJ12575GL2R7NN	NS 12575T 2R7NN 8	Regin Base	(6)
LCRNJ12575GL2R7NN	NS 12575T 2R7NN V	Regin Base	(6)
LCRNJ12575GL2R7NN00J	NS 12575T 2R7NN V	Regin Base	(6)
LBRNJ12575GL330MN	NS 12575T 330MN 8	Regin Base	(6)
LMRNJ12575GL330MN	NS 12575T 330MN 8	Regin Base	(6)
LCRNJ12575GL330MN	NS 12575T 330MN V	Regin Base	(6)
LCRNJ12575GL330MN00J	NS 12575T 330MN V	Regin Base	(6)
LBRNJ12575GL3R9NN	NS 12575T 3R9NN 8	Regin Base	(6)
LMRNJ12575GL3R9NN	NS 12575T 3R9NN 8	Regin Base	(6)
LCRNJ12575GL3R9NN	NS 12575T 3R9NN V	Regin Base	(6)
LCRNJ12575GL3R9NN00J	NS 12575T 3R9NN V	Regin Base	(6)
LBRNJ12575GL470MN	NS 12575T 470MN 8	Regin Base	(6)
LMRNJ12575GL470MN	NS 12575T 470MN 8	Regin Base	(6)
LCRNJ12575GL470MN	NS 12575T 470MN V	Regin Base	(6)
LCRNJ12575GL470MN00J	NS 12575T 470MN V	Regin Base	(6)
LBRNJ12575GL5R6NN	NS 12575T 5R6NN 8	Regin Base	(6)
LMRNJ12575GL5R6NN	NS 12575T 5R6NN 8	Regin Base	(6)
LCRNJ12575GL5R6NN	NS 12575T 5R6NN V	Regin Base	(6)
LCRNJ12575GL5R6NN00J	NS 12575T 5R6NN V	Regin Base	(6)
LBRNJ12575GL680MN	NS 12575T 680MN 8	Regin Base	(6)
LMRNJ12575GL680MN	NS 12575T 680MN 8	Regin Base	(6)
LCRNJ12575GL680MN	NS 12575T 680MN V	Regin Base	(6)
LCRNJ12575GL680MN00J	NS 12575T 680MN V	Regin Base	(6)
LBRNJ12575GL6R8NN	NS 12575T 6R8NN 8	Regin Base	(6)
LMRNJ12575GL6R8NN	NS 12575T 6R8NN 8	Regin Base	(6)
LCRNJ12575GL6R8NN	NS 12575T 6R8NN V	Regin Base	(6)
LCRNJ12575GL6R8NN00J	NS 12575T 6R8NN V	Regin Base	(6)

Please see the attached information letter and change notice on PFAS free.

Below is current affected items, I see there is outstanding orders.

Price Master CD	Customer	Customer Part Name	Part Name CD	Part Name
385960	TTI-OTHER - SG(ST	DA21547-425	2204408	LSRNJ10145GL6R8NNY
385960	TTI-OTHER - SG(ST	LSRNJ10145GL150MNY	2216869	LSRNJ10145GL150MNY